# AVATION

**JANUARY 1, 1923** 

Issued Weekly

PRICE 10 CENTS



VOLUME XIV

# SPECIAL FEATURES

THE TIMING OF AIRPLANE SPEEDS
AEROMARINE HIGH EFFICIENCY AEROFOIL.
THE 2000 MILE FLIGHT OF THE ARMY FOKKER T2
MEMBERSHIP OF THE AERONAUTICAL CHAMPER OF COMMERCE

THE GARDNER, MOFFAT CO., INC.
HIGHLAND, N. Y.
225 FOURTH AVENUE, NEW YORK

Entered as Second-Class Matter, Nov. 22, 1920, at the Poss Office at Highland, N. T. ander Act of March S. 1879.

Number 1 ATTOX June



# WATCH ITS PERFORMANCE EVERYWHERE



The Curtiss D-12--All American Persont Engine

Holds the World's Records for Speed and for Altitude (without supercharger)

# SUCCESS BREEDS SUCCESS

The following Grossovices are restelling the Cortics D-12 in their ships:

The Engineering Division, U. S. Air Service

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Engineers for their High Performance Planes

Glens L. Martin Company

Reliability, Economy, Light Weight, Small Frontal Aven and Franken
from Vibration make this motor the instituble choice of leading Agranuatical

THE CURTISS AEROPLANE AND MOTOR CORPORATION







Depter Wright "Choosy"

# Taught to Fly in Record Time

O N the morning of September 22, 1982, Kenneth M. Lues of Daytes, who had never previously touched the control of an airplane, took his first instruction flight with Watter E. Lees.

That same afternoon, after only four hours instruction, Lees stopped out of the machine and Lass flow sole, executing all the assessors required an ordeney flight in very methable ovid-

This supercelested feet was rendered possible and safe by associa of the entracelessay stablets of the type simplear and Years of passaching stable and research have resulted, first the perfective of the Divice Weight "Chancey", in the prederiors of an anylapse so while all as says in ity that it is take in the bands of say stanteur posturears. The day easily film and with hands of all excelles. It is post firms "speci"—by for the genator individual cases of serious accidents.



DAYTON WRIGHT COMPANY

DAYTON, OHIO
"The Birtheless et the Airclass"



SIMPLICITY

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SAFETY

# INTERNATIONAL AERO EXHIBITION GOTHENBURG, SWEDEN, 1923

# JUBILEE EXHIBITION

H.U.G. GOTHENBURG SWEDEN. 1923 July 20th -August 12th.



HUG COTHENBURG SWEDEN 1023 July 20th -August 12th

1923 17 HAUG

(Assess 46 - 126) GREAT INTERNATIONAL FLYING CONTESTS FOR AEROPLANES AND FLYING BOATS will be held at Toolands, the Appelorse of Cothenhore.

For all information arely to The Secretary, Aero Exhibition, postal and telegraphic address:

H LIG GOTHENBURG, SWEDEN, or to the ROYAL SWEDISH LEGATION, WASHINGTON, SWEDISH CONSULATE GENERAL, NEW YORK. JANUARY 1, 1923 AVIATION

Monhor of the Audit During of Corniction CONTENTS

THE CAPPAIGN MOSSAT COMPANY In PARTIES.

The 2008 Note Physic of the Army Polsky T2 Astronome Bark Ribieros Wing Corre.....

The Crains of the Remain Correte II April 2 Role Devicement 27 Change Sets First N.A.A. Phiet Certificate 27 Change Sets First N.A.A. Phiet Certificate 27 

225 FIXERDI AVENUE, NEW YORK

Subsecurios covar. Four dellars nor were Stude receive. Innest serve Mendes, Ferms close ten deux arceivents.

THOMAS-MODSE AIDCDAFT CODDODATION

ETHACA.



ORE than 5000 Wright-built engines have been flown in U.S. Government and Commercial Service-

During six years of steady use they have satisfied each succeeding demand for still

greater reliability, durability and efficiency. Since the war, except for experimental development of new types, and the continued use of surplus war stock, all new power plant production for Army and

Navy service types have been Wright-built. The accomplishments of our engineering and production organizations have measured up to the original Wright achievement-

the very art of flying.

WRIGHT AERONAUTICAL CORPORATION



L. D. George w D Memo W. I flower

**AVIATION** 

Leanua e Osci France P. Wasser

# The Awards Industry

THE most properly violent for 1913, from the secsantial various, expense the membranes of en-

ment far perticipation in a competition in Makind, the pur-The Assistances Frade Journal, none of Oriober, 1893, extrined a significant commentary on the policy of the British Air Mension which is definitely designed to strongton.

respectation would be the sound distincted. With this of the Army and New Alle Services. It can only weak be peter their reports to be stated accord accord accord to effect, forcing country per proceed in the expendency representation of the Anny and Kury Ale Services, as well as severy the sirrorall inflative to said other cleanerly, more controlle and officials of the Pest Office Deportment. The treathe is that below accomplated.

processionalists has suffered appears provides to person until First Connection Fidding. The croken sireful industry. The year 1922 has pleased this country in the freedress of duction facilities and programme in restinances. By the garded as an integral element in the administrations scheme compelled to compete us proce with auditorial holders who are Scenal - Government Competition. In the face of the ed-

> service stration is sufficient unto Week, a billed exactly exe-All of the above envises to exast a negation which is

In his name and address. President Harristy supply the regular growing made wife. The advantum is monounted

The attenued requiremental societies theld of Linux, growne and velocity from next to not during the month Chief of day Server again to attempt the flight with the On leading from the endurance digits on Oat, E. it was bened by the price that a second transcentamental effects cottl be made within the ensurer few days, in order to take weather rendfitions and nimely been relead, the pellots noted large

be more execution and housednes. All was an enalisies to during the time, and the surpleme was brought out at such and it dill not appear sood subserve to leave under the bad Class properties with the Weether Busses at San Dasse. was obtained throughout this percel. Two reports were

Prerous in Oct 26 there was no period when all weighter readitions were alread although referently favorable at times The more became millerable about Oct. 25, and from the

areas usually drift with votices deflections in a greatest mand that the sited condition can our whom an extense ker

to the end of the runner with the constitute of a take-of Frequent Line of Flight 1851 White Personal winds were presently to being awind at the projected her of fight from fun Diego to New York was \$250 mile. The 72 ked organity for 725 get of province. 2200 rates. Whe T2 had separatly for the fifth of posterois at the fight at 24 gal, per hour. At the speed effected in freez to the Phothe Canad, a distance of 5,400 miles win caughts string and by the help of favorable made. Had

here in actual exceptors under the right conditions. for frequency or question recent town the From the 25 to Nov. 2 weather confituous were manifed from up. of to two 2 wounter continues were massle-factory, with audicoloses that there would be no observer along A report from the Chief Formular at Washington on the morning of Oct 2 stated that womber conditions would not be executions for a start within the next 26 km. In the face On the sight of Det. 2 the first Deepe Worther Passessales

"Weether conditions propilions far start Friday somelog. necessary to eather our and set the love whose cut of the yething, etc. section the control of the section of event sufficient light for the take-off. At 557 a. m. the take-

of was reads with Licenteerest Kelly, olist. The total wearle The coverience of the arieful start came to mod stead at The advocations was obtay in content to the revenue atteact. The 72 chaded better than had been neglegated the higher mountains in the vicinity of Sen Jacobs and rough

Press as altitude of \$3000 ft. at Buccing, the recently

forms finitead was plotted up and followed. The prints element at the Colorede Eyes Spring Tacon, Ann., to Donney, N. N., northern by Theory, V. M., math to Edinson, H. M., theree to Nagia Son, N. M., Tarumara, H. M., Dalbert, Ten., Springer,

As the opening around Theory was expressivel, it became bonderd, and then let it down quickly man through the name

For less periods the T2 was found within 42 or 50 ft. of the extract of the ground, more efficiely being impossible of explanation. This was extended participated in the large At Donney an elvedory of approximately 5,300 ft was afficiand. This was the highest that the services would en-

Change in Graphical Events

Limitment Kelly task the controls after beening Downey, and effected to follow the arrestal rouses over the both and attempted to fly up another valley considerably to fit

looking volcasie emicu It appeared that the samplese sould not reas obtains softened to get over the country about, yet as such guillon pecible, due to the lightening of the load, and abbourt to bulles, yet the services keet on next the higher electrique note Trouble, N. M. very reached, and was being flown at h beenfile ground speed can to the evironment sign. The strainer mixed the easter and shouldbeen by a word exercis and was stilled over the narface and ever teneds naved, break marrer places at the termin before the T2 was

White pilling altitude through convergions of profine and lumber at the tone wer extremely defined; so the same hed not seem up and the sky was partially obscured by the Limitered Kelly. A brende south wind, coming considerable

for that man and vandifichers were required to order to eval the morehilty of kitting from houses, trees and holdpayment of although, or an assertion deveryood dedoctors.

the suggles accounty. It was not the corditions that the priors were actually by which copied arriety, as it was the experied conditions Became of the energy sterms on all rifler, it was angle-special that at about any secure of all rifler, it was angle-special

M Prott. Kee, the reduced was minutionally left, and it was security to fly a company tours for neveral handred soles. The lights of Wichits, Kan., were near approximately

Flong by Company even the groups of tights which has accurately appeared as the ground to mark the poettog of small villages, and which serken Earn of the fields and made would be dinne described

the appearance of a rule, randor considerable drift, the Sees and the everse flows accordingly at make other less my

size to take time tract tights while he expected and the approached. Its passion would not obvoye be found where The greent line of fight was torsed a point on the Manager Repr. shape its providing with the Managery, R.

decading min or debut of water. This did not cover the particulate amplies waight at the surpense was given, from our comparatively easy, the storms had been period many tunes. Electro and conclude hours had been must up

> The T2 second through parts of six states during duringer— New Measure, Treas, Ohlahoma, Kapson, Manorett and Illinois, Pilets were changed at the separt. The relat print re-national relative than the point of the relative to their conflicts were extraordy had. Out the water was shapper not desired of great supertrace at that tone abbough it was

ties very randly and the tidal second back on the sector to a fall what had postored but observed with the intention of leading 2 dd not strug possible to continue several coffre, resources or book and all other liquids into the radio-On acrosing at the Speciency at was estimated that the Sight could be continued to Fort Benjume Harrasse, a subbary post where the general freelithm could be obtained. When

an east and west law and the approximate execut, of daily, ever the speciety the elicitate of the place was approximately

3,000 St. White flying over Indosepties to Part Benjamin Barriage for spirite project bower to heat over public, a terrbe gide in for a comman. And congress power and processing own facts In the Community thereof of the Fills Corps Aves, A DR48 meeting was abstined from the Air Tue, of the Felb

Doe londred and thirty-live gallors of genoless remained in the two when the piece was known. It is very doubtful whether the TI would have reached Michel with this supply reach Mitchel Field, L. E. The find served on the trip consisted of a bex of best

The Next Politzer Trophy Race

At a trivial increase as the course community of an extraction of real It was also decided to have a simply hade for the manuscrip-Sixtie of salety for conceptant and hydrons, and seven and

a helf was dended as a ratiofactory factor of radity for all A restriction was plead on the contratons, in that they ment rette the implies your presents and. While the After the experiences of Onnia on 1977 and at Doppit in

Of stateds less immegtance to the wask of the pillate was the work of the two mechanics, Charles Decomic and Clyde Rotts. Three men not the TS to the less specific equilibrium for the first and made many valuable original congestion which

Shortel tox-utay Right was for gentler than they of the cogale factor to be considered in the andersors first... the fact

While the location of the septest for the Publishe Can more for 2023 has not been decided upon, a sub-committee was

under the adverse weether condition reconstrood, made the

St. Lords Wayne 1923 Air Boom Max Housel F. Weirle, Vice-President of the Agr Ter-

the NAA germons in New York Jan. 15, Major Welrie will make a proof on familiar and personalism for the use.

Fifth Aviators' Roll The Fifth Annual Assetsor' Ball will take place on Wedprodes, Jen. 3, 1933, et the Hatel Actor, under the char-

# Aeromarine High Efficiency Wing Curve

As Applied to U. S. Model WM Mail Airplane

Exchang in Charge, Alcohor Division, Accounting Plans & Monar Co.



States of the Assumption may beat for the WW most diges the advent was they reacted of the internal whereast

monopoles, union the kink lift ecoded, this type of wing ocseriou of the Gaid; high lift curves which feetly resided at Fortist beatly in A removal for the construction of a set of receip, which cerried. The increased expands was added to the betters of

Is was also found that, so order to obtain the best per-formance in blash from the plane, the made of prederer After the perhanenty test tops between New York and Chaptered with an Alle It had were made. In five time of

as compared with 1000 ft the first minute and \$200 ft.





## New Type of Flying Control Proves Successful Demonstration of the Locaine Lateral Pressure Equaliser

is located. The tests were made with a Lecting intemplane



such a way as to make the marking still on the controls. The contype of coales.

The contype has of the new decree in quite simple, in that a small oction of the busing along of the wing is extended.

Mr. Lacony ships that the new dates at an effective that the use of the teeffor edge etlerge new recovered or all airplease may be electrated entirely and much more controlling

that it is now possible to preserve its lightness and samplesty wifeed any secreics of central whatsover, and to obtain companies and establish refe-

### Aircraft Radio Development

The entral report of May Gos Grasge O. Squier, Clief

# Austria May Build Aircraft

The restriction in the Twesty of St. German, which was

# The Past Year and American Aviation

Chronology of 1922 Prepared by Agroupatical Chamber of Commerce Gives Outstanding Aviation Achievements

During the past trades mostly the Called States took the unit movement flying best sension in the world. That lead in mentacily every chose of acronation. American piles fying America account powered with Arentees entheir he has do not equilibrat notes of addresseds not been set by an accountly abroadery of 1922 which

transport, they have been branswed by evacuous and publicati milities; and dropt's strong ferminal support from their seine and constructive progress, though been our law and While we have not at possent a government borous superperson on consite last Providing, providing for a barrow of end accompanies in the Department of Companies. For the

public sirgerits and lay out a network of our rantes through-net for Differ Philips. The preserve has received withogonal independent. It is minious and persod temperary less to repuiste artial traffic many a respond only harmen effective.

During the year many more world's reports many to Annual In October Bray Don William Middell in an General Asiabed from the biplene equipped with the NS he-Parter Fill revise in which Large St. L. Munches of the bilenoters, cloud covert, with filters bares, of an average to and too viscours recent or the name race before In assessing with the National Asyrbane Boson at Deleck

and most monotiful sying done supple to be were form on Ex Now Yard-Atlantin City, Key West Havens, Massel Vanna and Binnes have sed Detroit-Ceveland serthousands of postule of freight. Note than 200 strikens learned to plat they seen markings. They were students at

At least twenty was types of auplanea were completed of

and purhody respected for heralting all kinds of surleyed are new represented in the emphasism of amount. The Dentary Wright, Ellin and other new type meshates for train became by so desig the sensustreed growth of flight saight ne managempted. Green material programment such as the Churcher of Commerce of the United States, Asserted Ray Association, Secrety of Associative Engineers, American pumps to the parties of the parties, National Aircraft Uniter-vators Associates, Arm Clifs of Associat, the Association The School Africary Compiler for Association value. my that before definite represented in sixually could be made, assumed information on stating places should be conference makes of a new medical

percognizace qualities of a new material.

Author adjustmently has become in important breach of

New Assumed Enginer New high prevent orginer, such as the Peakard and Weight.

of 600 km; the Accomprise 1973, which peemed the Nava through its performance in the Printer Treate East, the Learners redist sir-model motor, winner of the lest Cartin The Pulled Street Are Mail Service has continued its wanderful descentration of practical figure. Its ectual we a total of 1700,000 miles or twelve marchs without a

at the country. After who an initiage account. The time improvement is not constantly from the department of the operation of Association Allways, the largest greatly response the useful load of the standard U S wash

Jungery 1, 1920

plane. Another new want which mercured the nepformers monopolars our yards. The development of the prosmable pro-

A soluble Sight was made on April 17, when Classon Welvier or a Lourney are york few with a personner from Pelm Beack, I'm to New Yerk between doylegs and dark. solds performed with their by Amy plots in Englander when Levin, Ookley Kidly and J. A. Macouly flow 2000. 30 set, in the new pleas, as Army-Yokker \$2 monoplane sourced with a fallesty engles.

The Army sixthip C2 unde a face conveniently flight believes Lander Field. Ye and Box Field. Cell? in a new scored test to demonstrate the possibilities of similar non-Colof, 2,975 miles to 21 he 19 min.
The margines of the Minimistry della, consoleted discour a back derror of officenes in defension work. In Sectionary againsted the presentability of towards attack from the pre-

a mariagem of 155 direct late in 27 sec. The lather-thousary program has been confused with all the fatilities at the remember of the army and many forget. The rigid markip 201 is now bong completed at the kengen sady in 1872, and in August two other shaps, the Eccalogu-

The Many has instituted a bearest at Huarpice, Eneds, the again a mailer type at VeCool. Field where night flying in the Econies are renter here been established by the Jay San-

Agencies relation, mensionle has attracted the interest of the great robbe. At the Pint National Air Indicate held direction maintage, asser views commons to now way our direction in the day the cast influence arists on most how to was organized the symbolic truggest to bely "going Ascrete first in the Are" The execution is not industrial, and does it represent our perfector group, but is required



In August a cavel fighting place constron gods at Eup. so a visity supportest arm of the national deforms

Armin in the Widdle West. A home two of Learning most almost private up, and of the approachly maked landers

strainer speed at the base of short ours in both directions one a strainth year come. For 2000 deep to the vancour

### Tex Diffication There are not delicated, one of them on substant and un-

realizer P.A.I. speed seconds. The first, and the more arrivaltaking of events in desired, is to give the liner a better in-drament for the purpose. Special stop within on new

# State officed perceit of mechanical flight first began to be socied and of then redering the record on the books stated to

After the sice which has been eliminated in favor of a of empty involves some sneward difficulties on a related moving

mean by which the slightne sen be made to second its own necess of the finish line. readily be determined to a bundle-disk of a second fit or to no nordiery shater is front of the secure in rock a new that the province, making on district except at the

would without Affirmly and without introduction of one

January 1, 1933

penceal equation, the only langua untervarian required being optiond to cover the one-bidometer source on the two rans will when the current or started. This could also be elemented by additional mechanisms, but its ringuistics in ammercancy, or

of a second would therefore be - or 0.32 up. Ordinarily

should be recognisted appeared, but the speed melore and despete that he maximum ar-speed at an appears or a me-ometers on hour and that a wind of releasity a in his any about

the cares of speeds reported recognized for the two room

will be T, the true six speed which is desired. The large re- the loss was not efferwise duraged.

be - and - respectively. The mean of these two

error is such in to provide the trial flows in the west. Then with morthly banderm to the our about a partitable months or ear one to rec'he and noueten the fail encomes are cornet medical of determining the speed for each rise sep-scripts is excluded those speeds are found in he includes as

### The Cruise of the Sampaio Correia H The 2014 type from last desires Corres II. Print Walnut

Owing in a 38 male head wind, the find supply was totall On Day, 12 Print Stretcy flow from Manualses to Company 251 rules in 6 by 17 win, backing stony load winds at all altitudes. On the following day the 200 miles from Commons. the Day, 22 Print Winter took off from Nobel wery the

from Natal. In leading m a heavy not the know of the next

betten ving backled maker the capacit of 18 ft, waven, he

# "Who's Who in American Aeronautics"

The hierarchical standard of men who are pressures in Assertan Aeronautes are proceed periodically in AVEATION. The for every loss have auditable to a more double form and resided some self he subbable from some to make over af one proposes annual or account of Army and Navy appears, and with other changes as more count. As event and embalant are belief to cours as a computation of that character, interested parties are requested to actify "Flat" these titles of the actuative William J. Hougner

George II. Madebane

RANGE WILLIAM & Country Deliver, to ter i. Norda (b. Bershall (bl. forg. control to the black of the last day for the conversion for process, Saired da majori support of ann reasons chapted parcials formation of the Backson Field (bl. for the black of the black of the last of the l

Record H. Mubrisch MCCOPILL MENGED II. Northways here Findings To New 1985 on of June 7 Merchill and Jane Chertony Smith St. Cher D Son St. C. 1980 

William Rade Davis. Ir. DANIE SARRO MARIE M.
DANIE SER METALINE SER

Aping Markey Alminos Files Browner Aries Child of Delegacy Wilson philips depolaring here Lookalde Varies

\*\*\* OFFICE dates and market and m Annual of the Control 

State States States States Aries of Aries of Armany States and Armany States States States of Aries of

Philip G. Johnson 

# The Paragon Adjustable and Reversible Propeller Change from Full Speed Ahead to Reverse Made in 3 Seconds

of blade sector available as well as the linguing of the blade Is 1. Automatic throffling of the engine while the peopulier

unoily at a small angle and the surrounding color is uply as that it may be first surroun may the butt and then com-

will androne a confinence change until the broke draw in In order to change the blade angle in the screene direction The Perspec adjustable and processive presedies to the propeller cooking firm in America. It compenses a system

allowed to pick up upond and deliver its minimum never Hade Profiles Indicates The regular setting of the peopriler blokes at may matent is a function of the relative malies which has taken taken destine head remain stefanory but if other of them is

> directions so that the point out at any lime by applying a form on the throdge crewter than the inclini broken in the In the mith leading mechanism the control head messally

To show the action under power the projetter has been installed on a 150 ky. Hanno fluxa samue monated well stantine tank observery costs, etc., on a troller truck

The melopped flectio is provided with spenses in both

It was long realised that the variable piles and revenible

with respect to possibilities in this direction. In the Hards

labor in changing the blade stage.

Landin E You S. J. Transport

White Labours in S Y Y, at Phintel B, X X C. The Real C Spread do, 100 E Well W. F W West, Pass, V J State State Cor Nov. Directord, Gain Smile Cuterwood Co., Ft. of Elect Are, Street, Mrs.

panels are the parel of the par

Test. Name of W. and D. E. T. C. Circo E. Cottos, Santro PAE N V. Survice Arregion Layer Chris 22 Laptolith Ave. 27 V C. Greso, Linters, Mighest Co.

COUNTY AND THE PARTY OF T Colv. Airson, Soc. 5 E. Serregov St., Garage W. Code, Smallery M. Jone I. Todo Photomp Co. 30 Street St. Families Delli Spread St. Fabricki Navidit and Contro Cop., 156 W. 60 St. Andrew S. Agreement and S. A. Steiner, S. Steiner, S. A. Steiner, S. Steiner, S. A. Steiner, S.

OT 1 Channe Copies for Copy, dealer Cap E T and L Copy of Copy Table 1 Street W S Vilan Dep., 12 Conders M. H. T C Part E Fanton, 15 Depth 5: T C But E Fanton, 15 Depth 5: T C But Ebola Are Dep. 151 Conserve Edy. Kanna CO., No. 8 M Historian, 15 Victor 14: 200 Victoria Stat. 2 C 2 January 18-101 [Depth Edward Adjulan C., 190 S. 196 S. Phila-Lineary 18-101 [Depth Edward Adjulan C., 190 S. 196 S. Phila-

Q. S. Egiler, "Trans. Institute a Content C, "199 fell Seet Maj., "Miller Tool, 199 fell Seet Maj. The Tool Content feet Tool Content C, The C, The Content C, The C, The Content C, The C

Bill B. C. Friedly: Symmetry along My. Ct., 200 CD Ave. 

January 3, 2923

Major II 6 Auril Nov Eric Smiley Laboratome, 50 Washington Et. X. Y. C. 6 Placette, 704 Fifth Ary. 37 T. C. 8 Sand, Universities Exhausteric Sec., 507 E. Gain St., Chings. Date States 1011, Nov. See System Nac. Secretary Specy Learning States States States See Secretary Secretary States States Society Specy Complete States of Dr. San Ton. Species Species States Species States States States

New Orleans, Pilet Town Air Mail The following additional information has been prevised

The section was proposed by the New Orleans Perturates with the country of the Paris! Problem Committee of the New Orleans has my sirehous landous field hausted at the

perce, lead plants are writen for the proposed service to are as far distant from the meal present and that at Price a landing observationally in the verse, both at the finel of Camil States where the views is \$4, miles while, and at Pylot Town, where the giver is \$15, mile while The explore operator taking the Aw Med contract would not also be obligated for the improportions of the and from

As to motorological conditions, the New Orleans Asserta-"The mean desperature for the past frity-one years as in September, 791; October, 181; Automator, as r; Accompan 504; Petric 692. The annature number of days per hou in 25 years with draws for in 16; with wind substitutions Chair H. Tough, Chaire Tropic Cop., Serior & Reelen Arm, Long James Cop. S. V. Scotter Dr., Saire, Mar., Harte Wirley, B. F. Scotters Lee, Saire, Mar., B. Derele Wirley, L. Land Are Public, Start Sanag Sarrat Possible

Cross J. Wood J.W. Jab St. S. V. C. Chanter L. Wittener, Wittens Stein, Advised Corp. of Calif. Eur. Page Control of Stitlers Weight the Jones Con-cine (July 2) C is Friedrich Zeyen Weight (b., Jones 4). C is Weight (July 1) C is Jones and James Agent (if Y Friedrich 1) Control of Stitler (b. 1) Control of Stitler (before 5). Friedrich Control of The Addres (b. 1) Charge (J. V. V. Weight Control of The Addres (b. 1) Angel (Jan. 1) Friedrich Control of The Addres (b. 1) Angel (Jan. 1) Friedrich Control of The Addres (b. 1) Angel (Jan. 1)

5 or 6 years; with temperature 32 or less, 456 days, with h as 6 years; with imagement 37 or less, 655 days, with temperature 25 or lower, less than now day per year. There are 93 Messadors have substant the year of New

Chinese Gets First N.A.A. Pilot Certificate Herry Clea, Cleans student of the Cartin Aviation School of Garden City, L. I., recently obtained the first simpleme print's certificate branch by the National Accounts Accounts Accounts distinct of U.S.A. The figure tests presented by the N.S.A. Mr. Clin will nexus at some to his home in Contin where for the convolent of Eth. Densigns roots about 80 oracy a

where the rice is put out in day, nethern rich pince for landing. Been on the rice field, hardrags are easily made and

Notice to Aviatees Kenibearth Field Rafiels, N. Y. E. M. Roser, marrier for the Carton Ethiosea Co.

Leadings should be reade on the manuay only, extending As electric hight from of counderable hought in new being

Forther referencess retrainer the field may so not appropriate to E. M. Borne, Egypticelle Ecod, Bulle's, N. Y. Cr. A. Is, 1881

American Alvers for Time Side, N. S. C. C. F. Robbs Services Service & Made Co. Times Side, N. F. C. C. F. Robbs Services Services and Services Services Services

Coulom Francis Courseage Streets (Streets Courses) Courses (Streets Courses) Courses (Streets Course) Courses (Streets Course) Course (Streets Course) b Dad Rose, NYC berger Karnet Corp., Topsin Know Studentonin Aberdi Ann., Inc., 80 Sh Are. Standardson Abrell Adea, no. no. no. no. no. 15 Section 15 Section

mining Co. of Associal 1909 Other Bidg - Street & Dark Realized Fa. Section these Cop. Series Pr. Section Ermornel Pater Site Co. Enhance.

Particul accident & Indraway Co. The Fact Shall B. W. Lind Townson Co. The State Shall B. W. Lind Committee Co. Biller Miller Assessed to Children E. 1.
A d D D State 10 Beaus End.
Outline Copy 5. 7.
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